

440 SOUND BARRIER[®] FOR IBC 1207

Reduce Costs • Improve Performance • Build Green

<p>Installing 1/2" Homasote 440 Sound Barrier (440 SB) can cost less than half that of Light Weight Gypsum systems. 440 SB is available in a variety of thicknesses up to 1-3/4".</p>	<p>VS.</p>	<p>Light Weight Gypsum (Gypsum) offers no cost savings; 1-1/4" thick Gypsum with a Sound Mat, often required to reduce cracking and meet IBC 1207, can be more than twice the installed cost.</p>
<p>More cost savings can be achieved by installing 440 SB because it requires less interior framing material (use of 440 SB does not require the material and labor costs to install double bottom plates throughout the structure).</p>	<p>VS.</p>	<p>Installing 1-1/4" thick Gypsum with a Sound Mat offers no cost savings; it requires the labor and material costs of adding double bottom plates to accommodate the 1-1/4" depth often required to reduce cracking and meet IBC 1207.</p>
<p>Still more cost savings can be attained by reducing the amount of "joist" material required to carry the floor and still meet the specified performance criteria because 440 SB weighs just 1.2 lbs./psf.</p>	<p>VS.</p>	<p>Installing Gypsum offers no cost savings. 1 1/4" thick Gypsum weighs 10 lbs./psf. or more and requires the framing to support its weight and still meet the specified performance criteria.</p>
<p>Installing 440 SB further reduces costs because it does not disrupt project schedules; it handles like plywood and can be installed in the presence of other trades.</p>	<p>VS.</p>	<p>Installing Gypsum disrupts project schedules and adds expenses for every contractor because it requires the evacuation of all other trades, their equipment and material from the project.</p>
<p>Installing 440 SB does not introduce excessive moisture into the building envelope that can lead to long-term respiratory problems and associated litigation. 440 SB is uniformly manufactured with protection against termites, and resistance to mold and mildew.</p>	<p>VS.</p>	<p>Installing Gypsum requires introducing significant amounts of moisture into the building envelope that can lead to long-term respiratory problems and associated litigation.</p>
<p>Installing 440 SB causes no downtime at the job site waiting for certified installers to arrive and materials to dry; often the finished floor can be installed over 440 SB the same day.</p>	<p>VS.</p>	<p>Installing Gypsum causes down time waiting for the material to dry; curing times vary according to floor thickness (3/4"-3") and weather conditions.</p>
<p>When installing 440 SB in an enclosed structure temperature does not need to be considered.</p>	<p>VS.</p>	<p>Temperature must be considered when installing Gypsum; a temperature of at least 50° F must be maintained.</p>
<p>440 SB maintains the contour of the sub-floor; properly installed 440 SB stays level and maintains consistencies in elevation eliminating potential performance problems around door openings (affecting swing and fit) and other height sensitive areas.</p>	<p>VS.</p>	<p>Gypsum is poured in place and may set-up with peaks and valleys in a way that does not match the contour of the floor creating potential performance problems around door openings (affecting swing and fit) and other height sensitive areas.</p>
<p>Installed 440 SB maintains sound deadening over time because 440 SB allows for slight movement in the building structure without cracking.</p>	<p>VS.</p>	<p>Installed Gypsum may lose sound deadening over time; Gypsum can crack with even slight movement in the building structure and cracks allow sound through the floor.</p>

ADDITIONAL BENEFITS OF USING HOMASOTE

ALL HOMASOTE PRODUCTS ARE GREEN

Manufactured from up to 98% recycled post consumer content; they offer the highest contribution toward LEED Certifications. Homasote carries the following certifications:



Installing **440 SB** and other Homasote products offers the opportunity for **free Public Relations and added benefits for buyers.**

440 SB is easier on the feet than **Gypsum** alternatives; reduces the wear on finished flooring.

440 Sound Barrier is a lightweight, structural sound-deadening panel that absorbs most structurally borne sound. As a cellulose material, **440 SB** is a natural sound barrier and sound absorber, accredited, independent test reports show high STC and IIC ratings in standard floor/ceiling assemblies without the use of acoustical pads or drop ceilings. Please go to www.homasote.com/catalogs/2006/homasote-floor-assemblies.pdf to **see independently tested Sound and Fire Rated floor/ceiling assemblies.**

All assembly testing conducted with expansion gaps; please make sure to follow installation instructions when installing **440 SB** and finished flooring. Go to www.homasote.com/installation for more information.

FINISHED FLOORING

CARPET:

Stretch and Tack – “Recommended” – ideal application for **440 SB**; attach tack strip directly to **440 SB**

■ Glue-down

- Install a 1/4” underlayment perpendicular to the **440 SB**
- Alternatively: fill the expansion joints between the staggered **440 SB** with either a dash patch or a self-leveling one part polyurethane sealant such as Sikaflex 1C SL following manufacturer’s instructions

■ Carpet Tiles

- Install a 1/4” underlayment perpendicular to the **440 SB**

HARDWOOD:

■ Floating Floor

- Follow manufacturer’s installation instructions

■ Tongue and Groove

- Shoot cleats long enough to penetrate into, but not through plywood sub-floor

■ Glue Down

- Install a 1/4” underlayment perpendicular to the **440 SB**

VINYL FLOORING:

Install 1/4” underlayment perpendicular to **440 SB**; laminate tile

CERAMIC TILE:

Install an **anti-fracture membrane**, such as PROFLEX 90, directly over **440 SB** following manufacturer’s instructions

— OR —

Install the **Mapei Grani-Rapid System** directly over **440 SB** following manufacturer’s instructions for installation over plywood sub-floor and underlayment. Use **Bostik Hydroment** joint filler to grout the ceramic tile

— OR —

Install Cementitious board directly over **440 SB** following manufacturer’s instructions

ON OR BELOW GRADE:

Install **Homasote Comfort Base** immediately above unconditioned spaces

FASTENING:

Screw and Glue

- **Screws** – use #6-#8 coarse threaded drywall screws
- **Adhesives** – use adhesives with an AFG-01 specification such as Liquid Nails or PL400
- **Mastics** – use elastomeric mastics; see reference sheet for specifics

Disclaimer: All competitive information presented herein gleaned from public sources.



*Sensible. Sound.
Solutions.*

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www.homasote.com